US ERA ARCHIVE DOCUMENT



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ANALYTICAL RESULTS

Prepared for:

Chevron 5000 State Route 128 HOOVEN OH 45033

Prepared by:

Lancaster Laboratories 2425 New Holland Pike Lancaster, PA 17605-2425

November 30, 2009

Project: Hooven Monthly Southwest Quad

Samples arrived at the laboratory on Friday, November 20, 2009. The PO# for this group is 0015039270 and the release number is 50008931. The group number for this submittal is 1172040.

Client Sample Description	Lancaster Labs (LLI) #
MW-133,111709 Grab Water Sample	5844026
EB-1,111709 Grab Water Sample	5844027
MW-35,111709 Grab Water Sample	5844028
MW-138,111809 Grab Water Sample	5844029
MW-139,111809 Grab Water Sample	5844030
MW-142,111809 Grab Water Sample	5844031
Trip_Blank,111909 Grab Water Sample	5844032

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	Trihydro Corporation	Attn: Trihydro Database
ELECTRONIC	Trihydro Corporation	Attn: Tim Gunn
COPY TO ELECTRONIC	Trihydro Corporation	Attn: Matthew Mitchell
COPY TO	,	



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Questions? Contact your Client Services Representative Katherine A Klinefelter at (717) 656-2300

Respectfully Submitted,

Robin C. Runkle Senior Specialist



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Sample Description: MW-133,111709 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844026 LLI Group # 1172040

ОН

Project Name: Hooven Monthly Southwest Quad

Collected: 11/17/2009 11:45 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW133

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093271AA	11/23/2009	14:23	Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093271AA	11/23/2009	14:23	Nicholas R Rossi	1



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Sample Description: EB-1,111709 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844027 LLI Group # 1172040

ОН

Project Name: Hooven Monthly Southwest Quad

Collected: 11/17/2009 09:05 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SWEB1

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	N.D.	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tir	me	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093271AA	11/23/2009	14:44	Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093271AA	11/23/2009	14:44	Nicholas R Rossi	1



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Sample Description: MW-35,111709 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844028 LLI Group # 1172040

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 11/17/2009 13:30 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW-35

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
06291	Benzene		71-43-2	N.D.	0.5	1
06291	Chlorobenzene		108-90-7	N.D.	0.8	1
06291	Ethylbenzene		100-41-4	N.D.	0.8	1
06291	Toluene		108-88-3	N.D.	0.7	1
06291	Xylene (Total)		1330-20-7	N.D.	0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093251AA	11/21/2009 17:33	Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093251AA	11/21/2009 17:33	Nicholas R Rossi	1



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Sample Description: MW-138,111809 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844029 LLI Group # 1172040

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 11/18/2009 10:05 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW138

Received hod Dilution ection Limit Factor
1
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General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093251AA	11/21/2009 17:	55 Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093251AA	11/21/2009 17:	55 Nicholas R Rossi	1



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Sample Description: MW-139,111809 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844030 LLI Group # 1172040

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 11/18/2009 10:50 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW139

CAT No.	Analysis Name		CAS Number	As Re Resul	ceived t	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l		ug/l	
06291	Benzene		71-43-2	2	J	0.5	1
06291	Chlorobenzene		108-90-7	N.D.		0.8	1
06291	Ethylbenzene		100-41-4	N.D.		0.8	1
06291	Toluene		108-88-3	N.D.		0.7	1
06291	Xylene (Total)		1330-20-7	N.D.		0.8	1

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Tim	ıe	Analyst	Dilution Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093251AA	11/21/2009	18:16	Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093251AA	11/21/2009	18:16	Nicholas R Rossi	1



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Sample Description: MW-142,111809 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844031 LLI Group # 1172040

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 11/18/2009 14:20 by JH Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW142

CAT No.	Analysis Name		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846	8260B	ug/l	ug/l	
06291	Benzene		71-43-2	43	1	2
06291	Chlorobenzene		108-90-7	N.D.	2	2
06291	Ethylbenzene		100-41-4	52	2	2
06291	Toluene		108-88-3	11	1	2
06291	Xylene (Total)		1330-20-7	58	2	2
The	reporting limits for	r the GC/M	S volatile compoun	ds were raised due t	to	

the level of non-target compounds.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
	GC/MS VOA Water Prep	SW-846 5030B	1	Y093251AA	11/21/2009 18:38	Nicholas R Rossi	2
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093251AA	11/21/2009 18:38	Nicholas R Rossi	2



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Sample Description: Trip Blank, 111909 Grab Water Sample

Monthly Southwest Quad Nov. 09

LLI Sample # WW 5844032 LLI Group # 1172040

OH

Project Name: Hooven Monthly Southwest Quad

Collected: 11/19/2009 14:30 Account Number: 11494

Submitted: 11/20/2009 09:00 Chevron

Reported: 11/30/2009 at 16:47 5000 State Route 128

Discard: 01/30/2010 HOOVEN OH 45033

SW-T-

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS	Volatiles	SW-846 8260B	ug/l	ug/l	
06291	Benzene	71-43-2	N.D.	0.5	1
06291	Chlorobenzene	108-90-7	N.D.	0.8	1
06291	Ethylbenzene	100-41-4	N.D.	0.8	1
06291	Toluene	108-88-3	2 J	0.7	1
06291	Xylene (Total)	1330-20-7	N.D.	0.8	1
Tho	regult reported for	r toluono in this trin blan	k marr ha attributed to	0 + x 2 0 0	

The result reported for toluene in this trip blank may be attributed to trace amounts of toluene recently found in HCl preserved vials from the manufacturer.

General Sample Comments

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

CAT	Analysis Name	Method	Trial#	Batch#	Analysis	Analyst	Dilution
No.					Date and Time		Factor
01163	GC/MS VOA Water Prep	SW-846 5030B	1	Y093251AA	11/21/2009 19:20	Nicholas R Rossi	1
06291	TCL by 8260 (water)	SW-846 8260B	1	Y093251AA	11/21/2009 19:20	Nicholas R Rossi	1



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Quality Control Summary

Client Name: Chevron Group Number: 1172040

Reported: 11/30/09 at 04:47 PM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	ממפ	RPD Max
ANALYSIS Name	Result	MDL	UIIICS	3KEC	3KEC	<u> HIMITUS</u>	RPD	KFD Max
Batch number: Y093251AA	Sample numbe	er(s): 584	4028-5844	032				
Benzene	N.D.	0.5	ug/l	93		79-120		
Chlorobenzene	N.D.	0.8	ug/l	103		80-120		
Ethylbenzene	N.D.	0.8	ug/l	96		79-120		
Toluene	N.D.	0.7	ug/l	98		79-120		
Xylene (Total)	N.D.	0.8	ug/l	98		80-120		
Batch number: Y093271AA	Sample numbe	er(s): 584	4026-5844	027				
Benzene	N.D.	0.5	ug/l	102	105	79-120	3	30
Chlorobenzene	N.D.	0.8	ug/l	102	104	80-120	2	30
Ethylbenzene	N.D.	0.8	ug/l	98	99	79-120	2	30
Toluene	N.D.	0.7	ug/l	101	105	79-120	4	30
Xylene (Total)	N.D.	0.8	ug/l	99	99	80-120	1	30

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD <u>Limits</u>	RPD	RPD <u>MAX</u>	BKG Conc	DUP Conc	DUP <u>RPD</u>	Dup RPD <u>Max</u>
Batch number: Y093251AA	Sample	number(s)	: 5844028	-58440	32 UNSE	PK: P843730			
Benzene	105	104	80-126	1	30				
Chlorobenzene	-16 (2)	-602 (2)	87-124	11	30				
Ethylbenzene	98	101	71-134	3	30				
Toluene	104	98	80-125	6	30				
Xylene (Total)	93	96	79-125	3	30				
Batch number: Y093271AA	Sample	number(s)	: 5844026	-58440	27 UNSE	PK: P843202			
Benzene	108		80-126						
Chlorobenzene	105		87-124						
Ethylbenzene	102		71-134						
Toluene	107		80-125						
Xylene (Total)	102		79-125						

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

*- Outside of specification

- (1) The result for one or both determinations was less than five times the LOQ.
- (2) The unspiked result was more than four times the spike added.

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Quality Control Summary

Group Number: 1172040 Client Name: Chevron

Reported: 11/30/09 at 04:47 PM

Surrogate Quality Control

Analysis Name: TCL by 8260 (water) Batch number: Y093251AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5844028	103	97	94	86
5844029	102	95	93	85
5844030	99	93	92	88
5844031	98	92	100	98
5844032	100	94	93	88
Blank	104	97	94	86
LCS	99	96	100	101
MS	99	94	101	107
MSD	98	95	94	97
T.imits.	80-116	77-113	80-113	78-113

Analysis Name: TCL by 8260 (water)

Batch num	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
5844026	101	95	93	88
5844027	101	97	93	88
Blank	100	95	95	87
LCS	98	95	98	98
LCSD	98	92	98	100
MS	96	96	98	98
Limits:	80-116	77-113	80-113	78-113

*- Outside of specification

(1) The result for one or both determinations was less than five times the LOQ.

(2) The unspiked result was more than four times the spike added.

EPA ARCHIVE DOCUMENT

Analysis Request/ Environmental Services Chain of Custody



For Lancaster Laboratories use only

Group# <u>//72040</u> Sample #<u>5844026-32</u>

COC# 211763

(1	Client: CHEVLON	Acct.#:	11494			Matr	<u>(4)</u>		(5	<i>EUGGERER</i>		Reque on Code	********		For Lab Use FSC: SCR#:	Only		_
	Project Name/#/NONTHLY 5.W.QUAD INV Project Manager: DOUG LAM Sampler: THALL Name of state where samples were collected:	<u>09 ·</u> PWSID P.O.#: _	#Mwk.C11700 :-	0/12	- -	Li Potable Check if	Compainers								N=HNO3 E	Codes Γ=Thiosulfa B=NaOH D=Other	ate	of samples (if requisited)
2	Sample Identification **	Date Collected	Time Collected	\sim	Composi	Water	Other Total # of	20C'S							Remarks			Temperature upon receipt
	907111 133-سام	11-17-29		X		X	3	×							SEE AT	TALK		
Ì	EB-1,111709	11-17-59		X		X	3		+			-			AN ALITE	Lis	-	
	MW-35, 11709	11-17-29		X		火	3	+ -			_							
	MW-138 11/809	11-18-09	1005	X		X	3	1	<u> </u>		_				OC.	Sym	mar	7
ŀ	MW + 39, 11809	11-18-29		X		X	3	×			_				DATA	PACK	AG	<u></u>
	MW-142,11809 TRIP BLANK, 1/1909	11-18-29		メ		X	<i>3</i>	X									·	
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7)	Turnaround Time Requested (TAT) (please of (Rush TAT is subject to Lancaster Laboratories appr				Relingu	ished l کار	oy:	_	<u></u> .		Date เคราใ	Time つつ	Received	d by:			Date	Time (
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8	Data Package Options (please circle if required)		G Complete?				,	\						, .		7		
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	Type III (Reduced NJ) Type IV (CLP SOW) Type V! (Raw Data Only) Site-specific QC (Not personal submitted and su	nit triplicate volume.)		F	Relinqu	ished l	ру: 				Date	√ime	Received	iby:	Blus	led 1	Date	Time

Analytical Requests for Groundwater Monthly Southwest Quad Chevron Cincinnati Facility, Hooven, Ohio

Volatile Organics Benzene

Benzene Chlorobenzene Ethylbenzene Toluene Xylenes (total)



Environmental Sample Administration Receipt Documentation Log

		Λ	-	Camentation	ii rog							
Client	/Project: 👤		(NO)	Shippin	g Contain	er Sealed: YE	s) NO					
Date o	f Receipt: 📙	120/09		Custody	y Seal Pres	sent *: YE	s) no					
Time o	of Receipt:	0900		·								
	e Code:	50-1			seal was inta	ect unless otherwise	noted in the					
	Unpacker Emp. No.: 1607 Package: Chilled Not Chilled											
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			Temperature of	Shipping Conta								
Cooler #	Thermometer ID	Temperature (°C)	Temp Bottle (TB) or Surface Temp (ST)	Wet Ice (WI) or Dry Ice (DI) or Ice Packs (IP)	Ice Present? Y/N	Loose (L) Bagged Ice (B) or NA	Comments					
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4												
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Sample Administration Internal Chain of Custody												
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Lancaster Laboratories Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

N.D.	none detected	BMQL	Below Minimum Quantitation Level
TNTC	Too Numerous To Count	MPN	Most Probable Number
IU	International Units	CP Units	cobalt-chloroplatinate units
umhos/cm	micromhos/cm	NTU	nephelometric turbidity units
С	degrees Celsius	F	degrees Fahrenheit
Cal	(diet) calories	lb.	pound(s)
meq	milliequivalents	kg	kilogram(s)
g	gram(s)	mg	milligram(s)
ug	microgram(s)	I	liter(s)
ml	milliliter(s)	ul	microliter(s)
m3	cubic meter(s)	fib >5 um/ml	fibers greater than 5 microns in length per ml

- < less than The number following the sign is the <u>limit of quantitation</u>, the smallest amount of analyte which can be reliably determined using this specific test.
- > greater than

ppm parts per million – One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weightBesults printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture.

U.S. EPA data qualifiers:

Organic Qualifiers

Inorganic Qualifiers

Α	TIC is a possible aldol-condensation product	В	Value is <crdl, but="" th="" ≥idl<=""></crdl,>
В	Analyte was also detected in the blank	Ε	Estimated due to interference
С	Pesticide result confirmed by GC/MS	M	Duplicate injection precision not met
D	Compound quatitated on a diluted sample	N	Spike amount not within control limits
E	Concentration exceeds the calibration range of	S	Method of standard additions (MSA) used
	the instrument		for calculation
J	Estimated value	U	Compound was not detected
N	Presumptive evidence of a compound (TICs only)	W	Post digestion spike out of control limits
Р	Concentration difference between primary and	*	Duplicate analysis not within control limits
	confirmation columns >25%	+	Correlation coefficient for MSA < 0.995
U	Compound was not detected		
X,Y,Z	Defined in case narrative		

Analytical test results for methods listed on the laboratories' accreditation scope meet all requirements of NELAC unless otherwise noted under the individual analysis.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

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